



11-06-06

Docket No. 7096/Y01/SYNX/SYNX/HMM

TPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: Inventor(s): Martin R. Elliott, Robert B. Lowrance, Michael R. Rice, Jeffrey C. Hudgens and Eric A. Englhardt
Title: METHOD AND APPARATUS FOR SUPPLYING SUBSTRATES TO A PROCESSING TOOL
Serial No.: 10/650,479
Filed: August 28, 2003
Examiner: Michael S. Lowe
Group Art Unit: 3652

Transmitted herewith is:

- PTO Form 1449;
 Information Disclosure Statement with seventy-nine cited references; and
 Return Postcard.

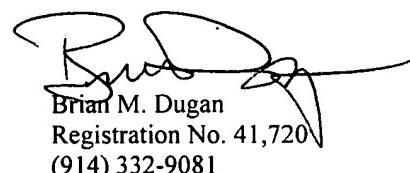
FEE CALCULATION					
Fee Items	Claims Filed	Included With Basic Fee	Extra Claims	Fee Rate	Total
Total Claims	N/A	- 20 =	-0-	X \$50.00	\$0.00
Independent Claims	N/A	- 3 =	-0-	X \$200.00	\$0.00
Basic Filing Fee (\$300.00), Utility Search Fee (\$500.00), Utility Examination Fee (\$200.00)					\$1000.00
TOTAL FEES					PAID

- The Commissioner is hereby authorized to charge \$0.00 to Deposit Account No. 04-1696.
- The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 04-1696. A duplicate copy of this transmittal is enclosed.
- Please address all future correspondence to: **Customer # 41161
Dugan & Dugan, PC
55 South Broadway
Tarrytown, NY 10591**

I hereby certify that this correspondence is being deposited with the United States Postal Service as express mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Express Mail Receipt No. EV977439022US
Date of Deposit: 11/3/06
Signature: Brian M. Dugan

Respectfully submitted,



Brian M. Dugan
Registration No. 41,720
(914) 332-9081



Express Mail Label No. EV977439022US

PATENTS
7096/Y01/SYNX/SYNX/HMM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Martin R. Elliott, et al.

Serial No. : 10/650,479

Filed : August 28, 2003

For : METHOD AND APPARATUS FOR SUPPLYING
SUBSTRATES TO A PROCESSING TOOL

Group Art Unit : 3652

Customer No. : 41161

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97,
applicants wish to call the attention of the Examiner to the
following references:

U.S. Patent No. 4,006,813, Rene Fluck

U.S. Patent No. 4,166,527, Earl F. Beezer

U.S. Patent No. 4,222,479, Dugan, et al.

U.S. Patent No. 4,294,344, Johannes D. van Maanen

U.S. Patent No. 4,538,720, Jean-Louis Limousin

U.S. Patent No. 4,552,261, Raudat, et al.

U.S. Patent No. 4,584,944, Clarence A. Dehne
U.S. Patent No. 4,653,630, Anna Bravin
U.S. Patent No. 4,679,685, Kenji Inoko
U.S. Patent No. 4,702,365, Chong-II Pak
U.S. Patent No. 4,708,727, Cardenas-Franco, et al.
U.S. Patent No. 4,720,006, Harald Lenherr
U.S. Patent No. 4,750,605, Brems, et al.
U.S. Patent No. 4,852,717, Ross, et al.
U.S. Patent No. 4,901,843, Jeffrey A. Lashyro
U.S. Patent No. 4,921,092, Crawford, et al.
U.S. Patent No. 5,052,544, David L. Anderson
U.S. Patent No. 5,092,450, Schommartz, et al.
U.S. Patent No. 5,341,915, Cordia, et al.
U.S. Patent No. 5,560,471, Prochut, et al.
U.S. Patent No. 5,664,254, Ohkura, et al.
U.S. Patent No. 5,782,338, Schuster, et al.
U.S. Patent No. 5,797,249, Thomas Patterson Hartness
U.S. Patent No. 5,829,574, Mario DelSanto
U.S. Patent No. 5,865,292, Aguilar, et al.
U.S. Patent No. 5,887,701, Mario Spatafora
U.S. Patent No. 6,209,710, Mueller, et al.
U.S. Patent No. 6,227,346, Lecomte, et al.
U.S. Patent No. 6,227,348, Frei, et al.
U.S. Patent No. 6,234,300, De Vos, et al.

U.S. Patent No. 1,639,758, Jervis B. Webb

U.S. Patent No. 1,906,036, William E. Wunderlich

U.S. Patent No. 2,153,071, Leonard J. Bishop

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U.S. Patent No. 3,131,801, Augusto Marchetti

U.S. Patent No. 3,184,032, John Petter Ingemar Jonsson

U.S. Patent No. 3,587,817, Bornstein, et al.

U.S. Patent No. 3,610,448, Ulrich Bornfleth

U.S. Patent No. 4,730,733, Kawamura, et al.

U.S. Patent No. 4,936,438, Glenn Waineo

U.S. Patent No. 4,534,843, Johnson et al.

U.S. Patent No. 6,309,279, Bowman et al.

U.S. Patent No. 5,460,478, Akimoto et al.

U.S. Patent No. 5,957,648, Bachrach

U.S. Patent No. 6,826,986, Lim et al.

U.S. Patent Application Publication No. 2004/0062633

A1, Rice et al.

U.S. Patent Application Publication No. 2005/0095110

A1, Lowrance et al.

U.S. Patent Application Publication No. 2004/0081538

A1, Rice et al.

U.S. Patent Application Publication No. 2004/0082546,

Elliott et al.

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U.S. Patent Application Publication No. 2004/0076596,
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U.S. Patent No. 6,699,329, Mueller et al.

U.S. Patent No. 6,919,001, Fairbairn et al.

U.S. Patent No. 4,805,759, Rochet et al.

U.S. Patent No. 5,570,990, Bonora et al.

U.S. Patent No. 6,524,463, Gramarossa et al.

U.S. Patent No. 5,411,358, Garric et al.

U.S. Patent No. 6,026,561, Lafond

U.S. Patent No. 5,884,392, Lafond

Foreign Art Reference No. JP 02098157 A (Abstract)

Foreign Art Reference No. JP 00062949 A (Abstract)

Foreign Art Reference No. JP 00335799 A (Abstract)

Foreign Art Reference No. WO 97/09256 A1 (Abstract)

Foreign Art Reference No. WO 00/69724 A1 (WIPO)

Foreign Art Reference No. EP 0717717 B1 (EPO)

Foreign Art Reference No. EP 00735927 B1 (Abstract)

Foreign Art Reference No. EP 00912426 B1 (Abstract)

Foreign Art Reference No. EP 0 663 686 B1 (EPO)

Foreign Art Reference No. EP 0 663 686 A1 (EPO)

Virvalo, T.K., "Cylinder Speed Synchronization", Dec. 1978, Hydraulics and Pneumatics, Vol. 31, No. 12, pages 55-57.

Cheng, et al., "Adaptive Synchronization Control of a Robotic Manipulator Operating in an Intelligent Workcell", April 1990, IEEE Transactions on Industrial Electronics, Vol. 37, No. 2, pages 119-126.

Shih-Hung Li, et al. "An Ultrahigh Speed Assembly Robot System. Part I. Design", 1994, Proceedings 1994 Japan-U.S.A. Symposium on Flexible Automation - A Pacific Rim Conference, Vol. 2, pages 465-72.

Roberts, et al., "Feed Chute Geometry for Minimum Belt Wear", Sept. 1998, 6th International Conference on Bulk Materials Storage, Handling and Transportation, pages 153-159.

Saigo, et al., "Drive Control Systems for Processing Lines", 11/10/2000, Fuji Jiho (Fuji Electric Journal), Vol. 73, No. 11, pages 45-49, Japanese language (Abstract only).

Saigo, K., "Variable-speed Drive Systems for Industrial Plants", 11/10/2000, Fuji Jiho (Fuji Electric Journal), Vol. 73, No. 11, pages 10-14, Japanese language (Abstract only).

Park, et al., "Task Sequence Optimization for a Dual-Robot Assembly System using Evolutionary Algorithms", 2001, Proceedings of the Institution of Mechanical Engineers, Part B

(Journal of Engineering Manufacture), Vol. 215, No. B6, pages
835-46.

These references are also listed on the accompanying
Information Disclosure Statement (Form PTO-1449).

Consideration of the foregoing in relation to this
patent application is respectfully requested.

Respectfully Submitted,



Brian M. Dugan, Esq.
Registration No. 41,720
Dugan & Dugan, PC
Attorneys for Applicants
(914) 332-9081

Dated: 11/3/06
Tarrytown, New York

U.S. Department of Commerce, Patent and Trademark Office				Docket No.: 7096/Y01/SYNX/SYNX/HMM		Serial No.: 10/650,479		
LIST OF RELEVANT ART CITED BY APPLICANT (Use several sheets if necessary)				Applicants: Martin R. Elliott, et al.				
				Filing Date: August 28, 2003		Group: 3652		
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
	US-1	4,006,813	02/08/77	Rene Fluck				
	US-2	4,166,527	09/04/79	Earl F. Beezer				
	US-3	4,222,479	09/16/80	Dugan, et al.				
	US-4	4,294,344	10/13/81	Johannes D. van Maanen				
	US-5	4,538,720	09/03/85	Jean-Louis Limousin				
	US-6	4,552,261	11/12/85	Raudat, et al.				
	US-7	4,584,944	04/29/86	Clarence A. Dehne				
	US-8	4,653,630	03/31/87	Anna Bravin				
	US-9	4,679,685	07/14/87	Kenji Inoko				
	US-10	4,702,365	10/27/87	Chong-Il Pak				
	US-11	4,708,727	11/24/87	Cardenas-Franco, et al.				
Foreign Patent Documents								
Translation								
		Document Number	Date	Country	Class	Subclass	Yes	No
	F-1	JP 02098157 A	04/10/90	Japan			Abstract	
	F-2	JP 00062949 A	02/29/00	Japan			Abstract	
	F-3	JP 00335799 A	12/05/00	Japan			Abstract	
	F-4	WO 97/09256 A1	03/13/97	WIPO			Abstract	
	F-5	WO 00/69724 A1	11/23/00	WIPO			X	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	OT-1	Virvalo, T.K., "Cylinder Speed Synchronization", Dec. 1978, Hydraulics and Pneumatics, Vol. 31, No. 12, pages 55-57.						
	OT-2	Cheng, et al., "Adaptive Synchronization Control of a Robotic Manipulator Operating in an Intelligent Workcell", April 1990, IEEE Transactions on Industrial Electronics, Vol. 37, No. 2, pages 119-126.						
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	US-14	4,852,717	08/01/89	Ross, et al.				
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	US-17	5,052,544	10/01/91	David L. Anderson				
	US-18	5,092,450	03/03/92	Schommartz, et al.				
	US-19	5,341,915	08/30/94	Cordia, et al.				
	US-20	5,560,471	10/01/96	Prochut, et al.				
	US-21	5,664,254	09/02/97	Ohkura, et al.				
	US-22	5,782,338	07/21/98	Schuster, et al.				
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	F-6	EP 0717717 B1	07/07/99	EPO			X	
	F-7	EP 00735927 B1	11/03/99	EPO			Abstract	
	F-8	EP 00912426 B1	08/09/00	EPO			Abstract	
	F-9	EP 0 663 686 B1	06/18/97	EPO			X	
	F-10	EP 0 663 686 A1	07/19/95	EPO			X	
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	US-24	5,829,574	11/03/98	Mario DelSanto				
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	US-26	5,887,701	03/30/99	Mario Spatafora				
	US-27	6,209,710	04/03/01	Mueller, et al.				
	US-28	6,227,346	05/08/01	Lecomte, et al.				
	US-29	6,227,348	05/08/01	Frei, et al.				
	US-30	6,234,300	05/22/01	De Vos, et al.				
	US-31	1,639,758	08/08/27	Jervis B. Webb				
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	OT-7	Park, et al., "Task Sequence Optimization for a Dual-Robot Assembly System using Evolutionary Algorithms", 2001, Proceedings of the Institution of Mechanical Engineers, Part B (Journal of Engineering Manufacture), Vol. 215, No. B6, pages 835-46.						
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U.S. Patent Documents <table border="1"> <thead> <tr> <th>*Examiner Initial</th> <th></th> <th>Document Number</th> <th>Issue Date</th> <th>Name</th> <th>Class</th> <th>Subclass</th> <th>Filing Date If Appropriate</th> </tr> </thead> <tbody> <tr><td></td><td>US-34</td><td>2,949,996</td><td>08/08/60</td><td>Roger Tonelli</td><td></td><td></td><td></td></tr> <tr><td></td><td>US-35</td><td>3,058,604</td><td>10/08/62</td><td>Harper, et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>US-36</td><td>3,131,801</td><td>05/08/64</td><td>Augusto Marchetti</td><td></td><td></td><td></td></tr> <tr><td></td><td>US-37</td><td>3,184,032</td><td>05/08/65</td><td>John Petter Ingemar Jonsson</td><td></td><td></td><td></td></tr> <tr><td></td><td>US-38</td><td>3,587,817</td><td>06/08/71</td><td>Bornstein, et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>US-39</td><td>3,610,448</td><td>10/08/71</td><td>Ulrich Bornfleth</td><td></td><td></td><td></td></tr> <tr><td></td><td>US-40</td><td>4,730,733</td><td>03/08/88</td><td>Kawamura, et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>US-41</td><td>4,936,438</td><td>06/08/90</td><td>Glenn Waineo</td><td></td><td></td><td></td></tr> <tr><td></td><td>US-42</td><td>4,534,843</td><td>08/13/85</td><td>Johnson et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>US-43</td><td>6,309,279</td><td>07/10/01</td><td>Bowman et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>US-44</td><td>5,460,478</td><td>10/08/95</td><td>Akimoto et al.</td><td></td><td></td><td></td></tr> </tbody> </table>								*Examiner Initial		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate		US-34	2,949,996	08/08/60	Roger Tonelli					US-35	3,058,604	10/08/62	Harper, et al.					US-36	3,131,801	05/08/64	Augusto Marchetti					US-37	3,184,032	05/08/65	John Petter Ingemar Jonsson					US-38	3,587,817	06/08/71	Bornstein, et al.					US-39	3,610,448	10/08/71	Ulrich Bornfleth					US-40	4,730,733	03/08/88	Kawamura, et al.					US-41	4,936,438	06/08/90	Glenn Waineo					US-42	4,534,843	08/13/85	Johnson et al.					US-43	6,309,279	07/10/01	Bowman et al.					US-44	5,460,478	10/08/95	Akimoto et al.			
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	US-46	6,826,986	12/08/04	Lim et al.				
	US-47	2004/0062633 A1	04/08/04	Rice et al.				
	US-48	2005/0095110 A1	05/08/05	Lowrance et al.				
	US-49	2004/0081538 A1	04/08/04	Rice et al.				
	US-50	2004/0082546	04/08/04	Elliott et al.				
	US-51	2004/0193300	09/08/04	Rice et al.				
	US-52	2004/0081545	04/08/04	Elliott et al.				
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	F-28							
	F-29							
	F-30							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	OT-16							
	OT-17							
	OT-18							
Examiner		Date Considered						

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.